

What is claimed is:

1. A stent comprising:

5 a plurality of cells disposed about the circumference of the stent, with at least one cell having a plurality of struts that are connected together to form the cell, with at least one strut having a compensating portion that compensates for foreshortening of the struts during expansion of the stent.

10 2. The stent of claim 1, further including a connecting member for coupling two adjacent cells.

3. The stent of claim 1, wherein the compensating portion has at least one area of inflection.

15 4. The stent of claim 1, wherein the compensating portion has an internal area of inflection and an external area of inflection.

20 5. The stent of claim 1, wherein each of the struts has a compensating portion.

25 6. The stent of claim 1, wherein each of the plurality of cells has four struts that define a generally diamond-shaped configuration having four apices, with a compensating portion provided at one of the apices.

7. The stent of claim 6, wherein a compensating portion is provided at two of the apices.

30 8. The stent of claim 6, wherein a compensating portion is provided at all the apices.

9. The stent of claim 6, wherein the compensating portion is C-shaped.

1055433-011802

10. The stent of claim 6, wherein the compensating portion is connects apices between two adjacent cells.

5 11. The stent of claim 10, wherein the compensating portion is S-shaped.

12. The stent of claim 10, wherein the compensating portion is C-shaped.

10 13. The stent of claim 1, wherein each strut is completely curved.

15 14. The stent of claim 1, wherein the plurality of cells is a first plurality of cells that defines a first plurality of rows and columns, and wherein the stent further includes a second plurality of cells that defines a second plurality of rows and columns.

20 15. The stent of claim 14, wherein the configuration of the first plurality of cells is a substantial mirror image of the second plurality of cells.

25 16. The stent of claim 1, wherein the plurality of cells is a first plurality of cells that is provided along a first length of the stent, and wherein the stent further includes a second plurality of cells that is provided along a second length of the stent.

30 17. The stent of claim 1, wherein the compensating portion is curved.

18. The stent of claim 1, wherein each cell has a plurality of apices that are defined by the plurality of struts, and each of the plurality of struts includes a first strut and a second strut to define a double-strut configuration, with each of the first and second struts having a first end and a second end, wherein the first ends of the first and second struts are connected to a first apex, and the second ends of the first and second struts are connected to a second apex.

19. The stent of claim 18, wherein the first and second struts of each of the plurality of struts defines a space therebetween.

20. A stent comprising a plurality of cells disposed about the circumference of the stent, with at least one cell having a plurality of double-struts that are connected together to form the cell.

21. The stent of claim 20, wherein each cell has a plurality of apices that are defined by the plurality of double-struts, and with each of double-struts having a first end and a second end, wherein the first ends of the double-struts are connected to a first apex, and the second ends of the double-struts are connected to a second apex.

22. The stent of claim 21, wherein each double-strut defines a space therebetween.